

SABIC® HDPE Y10048M

PROVISIONAL TECHNICAL DATA SHEET HIGH DENSITY POLYETHYLENE

DESCRIPTION

HDPE Y10048M is a High Density Polyethylene having medium molecular weight and a narrow molecular weight distribution for the production of tapes.

TYPICAL APPLICATIONS

HDPE Y10048M is used in producing Protective netting for agriculture and construction, Slit film & Tapes, Round bale nets.

TYPICAL PROPERTY VALUES

Revision 20211203

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|----------------|-------------------|--------------|
| POLYMER PROPERTIES ⁽¹⁾ | | | |
| Melt Flow Rate (MFR) | | | |
| at 190°C and 5 kg | 1.8 | g/10 min | ISO 1133 |
| at 190°C and 21.6 kg | 23 | g/10 min | ISO 1133 |
| FRR (MFR 21.6kg/ MFR 5kg) | 13 | - | ISO 1133 |
| Density | | | |
| @23°C | 948 | kg/m ³ | ISO 1183 |
| MECHANICAL PROPERTIES ⁽¹⁾ | | | |
| Tensile modulus | | | |
| | 1000 | MPa | ISO 527 |
| Tensile Stress at Yield | | | |
| | 24 | MPa | ISO 527-1/-2 |
| THERMAL PROPERTIES ⁽¹⁾ | | | |
| Vicat Softening Point @ 10N (VST/A) | | | |
| | 75 | °C | ISO 306 |

(1) Typical values: not to be construed as specification limits.

PROCESSING CONDITIONS

Recommended processing temperature: 180 - 220°C

STORAGE AND HANDLING

Polyethylene material should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

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